KENWOOD

DVD-RECEIVER

KDV-3241Y

INSTRUCTION MANUAL

Kenwood Corporation













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Before use

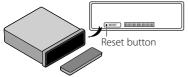
▲WARNING

To prevent injury or fire, take the following precautions:

• To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.

How to reset your unit

 If the unit fails to operate properly, press RESET button using a ball point pen or a similar tool.



Cleaning the Unit

If the faceplate of this unit is stained, wipe it with a dry soft cloth such as a silicon cloth.

If the faceplate is stained badly, wipe the stain off with a cloth moistened with neutral cleaner, then wipe it again with a clean soft dry cloth.



 Applying spray cleaner directly to the unit may affect its mechanical parts. Wiping the faceplate with a hard cloth or using a volatile liquid such as thinner or alcohol may scratch the surface or grases characters.

Cleaning the Faceplate Terminals

If the terminals on the unit or faceplate get dirty, wipe them with a clean soft dry cloth.

Lens Fogging

When you turn on the car heater in cold weather, dew or condensation may form on the lens in the CD player of the unit. Called lens fogging, this condensation on the lens may not allow CDs to play. In such a situation, remove the disc and wait for the condensation to evaporate. If the unit still does not operate normally after a while, consult your Kenwood dealer.

- If you experience problems during installation, consult your Kenwood dealer.
- When you purchase optional accessories, check with your Kenwood dealer to make sure that they work with your model and in your area.
- The RDS feature won't work where the service is not supported by any broadcasting station.
- The illustrations of the display and the panel appearing in this manual are examples used to explain more clearly how the controls are used. Therefore, what appears on the display in the illustrations may differ from what appears on the display on the actual equipment, and some of the illustrations on the display may be inapplicable.

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This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

Before use

This Product is not installed by the manufacturer of a vehicle on the production line, nor by the professional importer of a vehicle into an EU Member State.

Information on Disposal of Old Electrical and Electronic Equipment (applicable for EU countries that have adopted separate waste collection systems)



Products with the symbol (crossed-out wheeled bin) cannot be disposed as household waste.

Nold electrical and electronic equipment ■ should be recycled at a facility capable of handling these items and their waste byproducts. Contact your local authority for details in locating a recycle facility nearest to you. Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.

The marking of products using lasers (Except for some areas)

CLASS 1 LASER PRODUCT

The label is attached to the chassis/case and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

CE

Declaration of Conformity with regard to the EMC Directive 2004/108/EC

Manufacturer:

Kenwood Corporation

2967-3 Ishikawa-machi, Hachioji-shi, Tokyo, 192-8525 Japan

EU-representant:

Kenwood Electronics Europe BV

Amsterdamseweg 37, 1422 AC UITHOORN, The Netherlands

TV system selection

You must select the appropriate system mode for your TV system. When the selected system does not coincide with the system of your TV, normal colour picture may not be displayed.

- AUTO: Select when the unit is connected with Multi system TV.
- NTSC: Select when the unit is connected with NTSC-TV.
- PAL: Select when the unit is connected with PAL-TV.

1 Press [SRC] to select the CD/DVD.

2 Press [♠] EJECT.

Confirm that no disc is loaded in the built-in player ("NO DISC" is displayed).

3 Press and hold [ENTER/►II] ([II] on the remote control) for more than 5 seconds.

Each time you press and hold the button for more than 5 seconds, the TV system switches as follows: PAL—AUTO—NTSC

Symbols used in this manual

A section whose title has one of the following symbols is applicable only to the disc represented by the symbol.

DVD DVD

VCD Video CDs

ACD Audio CDs

MP3 MP3 files

WMA WMA files

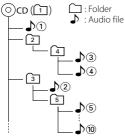
About Audio file

- · Plavable Audio file MP3 (.mp3), WMA (.wma)
- · Playable disc file format ISO 9660 Level 1/2, Joliet.

Although the audio files are complied with the standards listed above, the play maybe impossible depending on the types or conditions of media or device.

· Playing order of the Audio file

In the example of folder/file tree shown below, the files are played in the order from 1 to 10.



About DivX

DivX is a popular media technology created by DivX, Inc. DivX media Files contain highly compressed video with high visual quality that maintains a relatively small file size. DivX files can also include advanced media features like menus, subtitles, and alternate audio tracks. Many DivX media files are available for download online, and you can create your own using your personal content and easy-to-use tools from DivX.com.

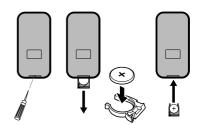
About DivX Certified

DivX Certified products are officially tested by the creators of DivX and guaranteed to play of DivX video, without DivX 6.

Certified products qualify for one of several DivX Profiles that designate the type of video the product supports, from compact portable video to highdefinition video.

Battery installation:

- 1. Remove the battery holder with a sharp object such as a ballpoint pen.
- 2. Install the battery on the battery holder.
- 3. Install the battery holder back into its original position.



▲WARNING

Keep the battery out of the reach of children. Should the battery be swallowed, consult a doctorimmediately.

ACAUTION

- · Use one CR2025 (3 V) lithium battery.
- · Remove the battery if the remote control is not used for a month or longer.
- Do not leave the product in a hot or humid place.
- · Do not handle the battery with metallic tools.
- · Do not store the battery with metallic materials.
- In the event of battery leakage, wipe the remote control completely clean and install a new battery.
- When disposing of used batteries, please comply with governmental regulations or environmental public institutions' rules that apply in your country/ area.

Using the remote control

Point the remote control in the direction of the control panel to operate.

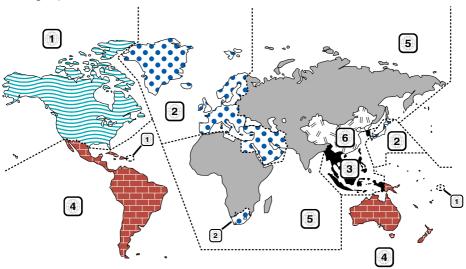


- · Do not store the remote control in high temperatures or direct sunlight.
- · Do not let the remote control fall onto the floor, where it may become jammed under the brake or accelerator pedal.

Before use

Region codes in the world

The DVD players are given a region code according to the country or area it is marketed, as shown in the following map.



DVD disc marks

Symbol	Descriptio	
ALL	Indicates a i	

region number. The discs with this mark can with any DVD player.



Indicates the number of audio languages recorded. Up to 8 languages can be recorded in a movie. You can select a favorite language.



Indicates the number of subtitled languages recorded. Up to 32 languages can be recorded.



If a DVD disc has scenes shot from multiple angles, you can select a favorite angle.



Indicates the type of screen for the image. The left mark indicates that a wide image picture (16:9) is displayed on a standard TV set screen (4:3) with a black band at both the top and bottom of the screen (letter box).

Operation regulatory marks

With this DVD, some functions of this unit such as the play function may be restricted depending on the location where the DVD is playing. In this case, the following marks will appear on the screen. For more information, refer to the disc manual.



List of playable discs

Disc	Standard	Support	Remark
types			
DVD	DVD Video		
	DVD Audio	X	
	DVD-R	0	MP3/WMA/JPEG/MPEG/ DivX Playback
	DVD-RW	0	VR mode/Multi-border/ Multisession/CPRM not
	DVD+R	0	supported (Playback depends on
	DVD+RW	0	authoring conditions)
	DVD-R DL (Double layer)	×	
	DVD+R DL (Double layer)	$\overline{}$	
	DVD-RAM	\times	
CD	Music CD	0	
	CD-ROM	0	MP3/WMA/JPEG/DivX
	CD-R	0	playback
	CD-RW	0	Multisession supported Packet write not supported
	DTS-CD	0	
	Video CD (VCD)	0	
	Super video CD	×	
	Photo CD	×	
	CD-EXTRA	Δ	Only music CD session can be played.
	HDCD	×	
	CCCD	×	
Others	Dualdisc	X	
	Super audio CD	×	

O: Playback is possible.

 \triangle : Playback is partly possible.

x: Playback is impossible.

Use of "DualDisc"

When playing a "DualDisc" on this unit, the surface of the disc that is not played may be scratched while the disc is inserted or ejected. Since the music CD surface does not conform to the CD standard, playback may be impossible.

(A "DualDisc" is a disc with one surface containing DVD standard signals and the other surface containing music CD signals.)

Handling discs

- Do not touch the recording surface of the disc.
- CD-R/RW, DVD-R/RW, and DVD+R/RW discs are easier to be damaged than a ordinary music CD. Use a CD-R/RW, DVD-R/RW, or DVD+R/RW disc after reading the cautions on the package.
- · Do not stick a tape, sticker, etc., on the disc. Also, do not use a disc with those materials pasted on it.

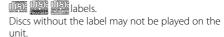
Discs that can not be used

· Discs that are not round cannot be used.





- · Discs with coloring on the recording surface or that are dirty cannot be used.
- This unit can only play the CDs with one of



• A CD-R or CD-RW that hasn't been finalized cannot be played. (For the finalization process refer to your CD-R/CD-RW writing software, and your CD-R/CD-RW recorder instruction manual.)

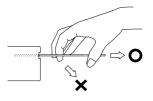
Disc storage

- Do not leave discs place them in direct sunlight (On the seat or dashboard etc.) and where the temperature is high.
- · Put discs in their cases and store them in such a storage as disc cabinet.

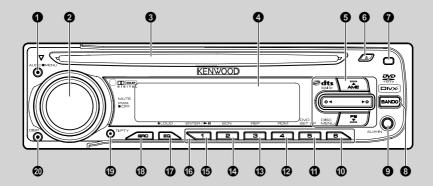
How to eject a disc

When ejecting a disc from this unit, pull it out horizontally.

If pulled out with a strong downward force, the recording surface of the disc may be scratched.



Component Names and Functions



Control panel

- **1** [AUDIO/■MENU]
- 2 VOL/MUTE/[PWR/■OFF]
- O Disc Slot
- 4 Display

⑤ [▲]/[▼]/[◄]/[▶]

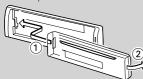
- · Skip/Search [◄]/[►]
- Seek/Tune [◄]/[►]
- Folder Up/Down [▲]/[▼]
- Select [▲]/[▼]/[▲]/[►]
- ⑥ [▲] EJECT

♠ FaceplateRelease

Press the Release button.

Releases the faceplate lock so that it can be removed.

Refer to the following diagram when reattaching the faceplate.





- The faceplate is a precision piece of equipment and can be damaged by shocks or jolts.
- · Keep the faceplate in its faceplate case while detached.
- Do not place the faceplate (and the faceplate case) in areas exposed to direct sunlight, excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- To prevent deterioration, do not touch the terminals of the unit or faceplate with your fingers.

(BAND)

- · Selects 3 FM and MW bands.
- Moves to any other file on the disc with various types of files.

AUX IN

Auxiliary input

- (DISC MENU)
- (DVD SETUP)
- (RDM)
- (B) [REP]
- ([SCN]

⑤ [ENTER/►II]

- Play/Pause [►II]
- Enter [ENTER]

6 [1] - [6]

Selects a stored radio station frequency.

(r) [EQ/■LOUD]

- Equalizer [EQ]
- · Loudness [LOUD]

(B) [SRC]

Selects a source.

@ [TI/PTY]

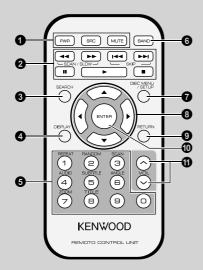
Traffic Announcement identification (TI) Program Type (PTY)

@ [DISP]

Accesses On-Screen display.



Tindicates the button operation (hold) activates the particular function.



Remote control unit

[PWR]

Switches the unit ON/OFF.

ISRC1

Selects a source.

[MUTE]

Mutes the volume.

② [I◄◄]/[▶▶I] SKIP

- Goes to the next (previous) chapter, track or file.
- Returns to the beginning of the current chapter, track, or file.

[◄◄]/[▶▶] SCAN/SLOW

Backward (Forward) search playback.

[III] PAUSE

- · Pause playback temporarily.
- Press repeatedly for frame-by-frame playback.

[►] PLAY

Starts playback.

[■] STOP

Stops playback.

❸ [SEARCH]

Selects a track or file.

[DISPLAY]

Accesses On-Screen display.

6 [0-9]

- · Selects numbered items in the menu.
- Selects a stored radio station frequency (1 6).

[REPEAT]

Repeats chapter, track, title or file.

[RANDOM]

Plays tracks or files in random order.

Plays the first 10 seconds of all track.

[AUDIO]

Selects audio language.

[SUBTITLE]

Selects subtitle language.

[ANGLE]

Selects a DVD camera angle if available.

[ZOOM]

Enlarges video image.

[TITLE]

Displays title menu, if available.

(BAND)

- Selects 3 FM and MW bands.
- · Moves to any other file on the disc with various types of files.

⑦ [DISC MENU]/[SETUP]

- · Accesses menu on a DVD disc.
- · Accesses or removes the Setup menu.

③ [▲]/[▼]/[◄]/[►] up/down/left/right

Selects an item in the menu.

Displays the menu of a video CD with PBC.

([ENTER]

Confirms menu selection.

(I) [VOL (UP +/ DOWN -)]

Adjusts the volume level.

Basic Operation

Turning the unit on

1 Press any button ([PWR] on the remote control) other than eject [▲] and release.

Turning the unit off

1 Press and hold the [OFF] ([PWR] on the remote control).

Inserting a disc

1 Draws the disc, and starts playback automatically.



- The DVD player plays one, standard 12-cm disc at a time. Playing back an 8-cm disc is not possible with this unit and can not use adapter.
- · Do not insert anything other than a disc into the disc loading slot. Discs which can be played back are listed on Types of Playable Discs (page 7).

Ejecting a disc

1 Press [▲]. The disc automatically ejects from the loading slot.



 When the disc is ejected by pressing [▲] during playback, it will be loaded automatically after 10 seconds unless you remove the disc from the unit.

Selecting a source

1 Press [SRC] to select a source.

Press [SRC] repeatedly to switch between the following sources:

Tuner—CD/DVD—AUX (AUX IN)

Selecting a media type

When you select CD/DVD as a source, you can switch the MUSIC, PHOTO and MOVIE menu on a disc with audio, photo, and movie files. Each menu has a media type indication tab which shows what media you are selecting.

1 Press [BAND] ([BAND] on the remote control) to select other media types.

Media type indication tab





· For a disc with only audio files, "MUSIC" is displayed. If the disc has photo or movie files, "PHOTO" tab or "MOVIE" tab is displayed.

Adjusting the volume

1 Rotate [VOL] (Press [VOL +/-] on the remote control) to adjust the sound level.



· When you turn the unit off, the current volume level is automatically memorized. Whenever you turn the unit on again, it will operate at the memorized volume level.

Mute

- 1 Press [MUTE] to cut the sound.
- 2 To cancel it, press [MUTE] again.

Checking the clock

 You can see the clock pressing [DISP] on the control panel.



 If the RDS broadcasting with CT (Clock Time) information's received by the unit, the clock will be updated automatically in the display. Unless, "NO CLOCK" appears in the display

Loudness

1 Press and hold [EQ/LOUD] to reinforce treble, bass and surround effect.

Loudness off (no display)—loudness on ("LOUD" indicator lights)

Using the EQ (Equalizer)

1 Press [EQ/LOUD] repeatedly.

The indicator lights in the following order.

POP—CLASSIC—ROCK—JAZZ—VOCAL— SALSA—SAMBA—USER1—USER2— off (no display)

- · POP: Optimized for R&B, Soul and Country music.
- CLASSIC: Optimized for orchestral music.
- ROCK: Optimized for Hard Rock and Heavy Metal music.
- JAZZ: Sweet sound with soft feeling.
- VOCAL: Powerful realism with strong sound quality.
- · SALSA: Reproduces salsa music acoustics.
- · SAMBA: Reproduces samba music acoustics.
- **USER1**: Use the menu to set the sound level you want.
- USER2: Use the menu to set the sound level you want.



 You can adjust each sound level to your preference.
 Once you select a USER mode and then make an adjustment, it automatically stored for the currently selected USER mode. Refer to Adjusting the sound level (page11).

Adjusting the sound level

1 Press [AUDIO/MENU] repeatedly to select the mode you want to adjust from volume, bass, middle, treble, balance and fader.

The indicator lights in the following order.

VOL — BAS— MID — TRB— BAL— FAD

2 Rotate [VOL] (Press [VOL +/-] on the remote control) to adjust the sound quality.

Indication	Turn right	Turn left
"VOL"	Increase the volume level.	Decrease the volume level.
"BAS"	Increase the bass level.	Decrease the bass level.
"MID"	Increase the middle level.	Decrease the middle level.
"TRB"	Increase the treble level.	Decrease the treble level.
"BAL"	Decrease the level of the left speaker(s).	Decrease the level of the right speaker(s).
"FAD"	Decrease the level of the front speaker(s).	Decrease the level of the rear speaker(s).



 When EQ or LOUD is set to Off, you can adjust the sound level (BAS, MID, TRB) settings.

Basic Operation

Changing the general settings

- 1 Press and hold [AUDIO/MENU] so that one of menu items appears.
- 2 Press [AUDIO/MENU] repeatedly to scroll hetween menus.

AF ON—REG ON—TA ALARM—PI SOUND— AUX ON-AUX 0dB-DEMO OFF-BEEP 2ND

3 Rotate VOL clockwise or counterclockwise to select one of the settings.

The setting displayed on the display is set and automatically disappears after about 6 seconds.

• AF (Alternative Frequency) ON/OFF

When the reception quality drops, the tuner automatically changes to another station in the network, broadcasting a better reception quality, using the PI and AF codes.

AF ON: Wherever you drive, you can continue to listen to the same program without interruptions. AF OFF: Only station name will be displayed. In case of poor reception no alternative station can be used.

• REG (Region) ON/OFF

REG ON: The unit switches to another station. within the same network, broadcasting the same program when the receiving signals from the current station become weak.

REG OFF: The unit switches to another station. within the same network when the receiving signals from the current station become weak. (This mode, the program may differ from the one currently received.)

TA(Traffic Announcement) ALARM/SEEK

TA ALARM: When a newly tuned station has no TP information for five seconds, a double beep sound is output.

TA SEEK: When the newly tuned station does not receive TP information for five seconds, the receiver retunes to the next station.

• PI (Program Identification) SOUND/MUTE

PI SOUND: If the sound of a station with different PL is heard intermittently, the receiver mutes the sound after one second.

PI MUTE: If the sound of a station with different PI is heard intermittently, the receiver mutes the sound right now.

AUX (Auxiliary) ON/OFF

It is possible to use auxiliary equipment with this unit. Activate the auxiliary setting when using auxiliary equipment connected to this unit.

AUX ON: When using a auxiliary equipment. AUX OFF: When not using a auxiliary equipment.

AUX (Auxiliary) 0 dB/+6 dB

You can adjust the volume level of each source to prevent radical changes in volume when switching between sources. You can set to 0dB or +6dB. If the input level of the connected component is not high enough, increase the input level properly. Without adjusting the line input level, you may be surprised at a loud sound when you change the source from the external component to another source.

DEMO ON/OFF

You can change the initial indication on the display to information name (function name, EQ name, etc...) while listen to a source.

DEMO ON: Displays information name while listen to source.

DEMO OFF: Cancels the function.

BEEP 2ND/ALL

Sets the beep sound every time a button is pressed.

BEEP 2ND: The beep is generated when a key is long pressed (one sec.).

BEEP ALL: The beep is generated when any key is pressed.



· You can also select one of the settings by pressing [VOL+/-] on the remote control.

Tuner Operation

Listening to radio stations

- 1 Press [SRC] to select the tuner.
- 2 Press [BAND] repeatedly to select a band. The indicator lights in the following order.

F1 (FM1)—F2 (FM2)—F3 (FM3)— MW (MW)

3 Auto Search: Press [◄]/[▶] ([◄]/[▶] on the remote control).

"SEARCH" appears in the display. When a station is received, searching stops.

4 Manual Search: Press and hold [◄]/[►] ([◄]/[▶] on the remote control) until "MANUAL" appears, and then press it repeatedly.

The frequencies move up or down step by step.



· When not operated for 6 seconds after manual search, the auto search tuner display is shown.

Storing broadcast frequencies

You can easily store up to 6 broadcast frequencies for later recall at the touch of a button.

- 1 Press [BAND] to select desired band you want to store.
- 2 Select the desired frequency.
- 3 Press one of preset buttons [1] to [6] and hold until the beep sound.

The number you have pressed will be displayed in the preset number indicator and then remain lit. The selected radio station frequency has been stored in memory.

4 Repeat steps 1 to 3 to preset other stations.

The next time, you press the same preset button, the radio station frequency is recalled from the memory.



- · Up to 18 FM stations, 6 for each of 3 FM bands and 6 MW stations can be stored in the memory.
- · When a new station is stored in the preset station button, the previously preset station is automatically erased

Auto search memory

This function lets you automatically store the 6 strongest broadcast frequencies.

1 Press [▲].

The 6 strongest broadcast frequencies will be stored under preset buttons 1 to 6 in the order of their signal strength.

2 To cancel, press [▲].

To scan the preset stations

1 Press [▼].

Each preset station appears.

2 To cancel, press [▼].

To tune in the preset stations

- 1 Press [BAND] to select the desired band.
- 2 Press the desired preset buttons [1] to [6].

The preset station of the preset buttons [1] to [6] is displayed and the preset station is received.

RDS Operation

RDS display options

In normal RDS operation the display will indicate the station name. Pressing [DISP] enables you to cycle through the various data types in the following sequence:

CT—FREQUENCY—PTY—RT—PS (When PS is receiving.)

CT—PTY—RT—FREOUENCY (When PS is not received.)

- CT (Time controlled by the channel)
- PTY (Program type recognition)
- RT (Radio text recognition)
- · PS (Program Service name)

TA (Traffic Announcement identification) function

TA function allows the unit to switch to traffic annoucement (TA) from the current source (Another FM station, CD, or other connected components).

1 To switch the TA function on or off, press [TI/ PTY].



- If TP (Traffic Program identification) indicator lights up, TA reception is activated.
- TA reception will not work if you are listening to an MW station.

Selecting a media type

To select a certain program type out of the reception band, the following procedure can be used.

- 1 Press and hold [TI/PTY] to select a program
- 2 After, press and hold [TI/PTY] repeatedly for selecting each mode.

Music group—Speech group—Search off

3 Press one of preset buttons [1] to [6] repeatedly.

Each time this button is pressed, the display mode changes as follows:

No.	Music group
1	POP M — ROCK M
2	EASY M — LIGHT M
3	CLASSICS — OTHER M
4	JAZZ — COUNTRY
5	NATION M — OLDIES
6	FOLK M

No.	Speech group
1	NEWS — AFFAIRS — INFO
2	SPORT — EDUCATE — DRAMA
3	CULTURE — SCIENCE — VARIED
4	WEATHER — FINANCE — CHILDREN
5	SOCIAL — RELIGION — PHONE IN
6	TRAVEL — LEISURE — DOCUMENT



· RDS is only available for FM reception.

CD/MP3/WMA Operation

MP3/WMA Disc compatibility with this unit is limited as follows:

- Sampling Frequency: 8 kHz to 48 kHz (MP3), 22.05 kHz to 48 kHz (WMA)
- Bit rate: 8 kbps to 320 kbps (include VBR) (MP3), 32 kbps to 320 kbps (WMA)
- CD-R/CD-RW physical format should be ISO9660.
- If you record MP3/WMA files using software which cannot create a FILE SYSTEM, it will not be possible to playback MP3/WMA files. MP3/WMA files are not compatible with packet write data transfer.
- The total number of files or folders on the disc. should be less than 99 (Audio CD), 3 000 (MP3/ WMA) and 251 (folder).



· Customers should also note that permission is required in order to download MP3/WMA files and music from the Internet. Our company has no right to grant such permission. Permission should always be sought from the copyright owner.

Playing an Audio CD MP3/WMA disc

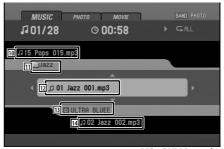
The unit can play MP3/WMA formatted recordings.

· Insert a disc in the unit.

"READING" appears in the display, and playback starts automatically.



AUDIO CD mode



MP3/WMA mode

- 1. Current track number/Total track number
- 2. Elapsed time
- 3. Playback status (Play ►, Pause II, Scan ►►× 4, \times 8, \blacktriangleleft \star 4, \times 8)
- 4. Current mode (Repeat, Intro scan, Random)
- 5 Previous track name
- Album information in CD-TEXT.
- 7 Current track name
- 8 Title and artist information in CD-TEXT
- 9. Next track name
- 10. Previous file name MP3 WMA
- 11. Current folder name MP3 WMA
- 12. Current file name MP3 WMA
- 13. ID3 TAG information MP3 WMA
- 14. Next file name MP3 WMA



- · When a disc contains audio data (CD-DA) and other format audio data, only the audio data (CD-DA) can be played back.
- · If you change the source, CD play also stops (without ejecting the disc). Next time you select CD as the source, CD play starts from where playback has been stopped previously.

CD/MP3/WMA Operation

Pause

- 1 Press [►II] ([II] on the remote control) during playback.
- 2 To return to playback, press [►II] (PLAY [►] or [II] on the remote control).

Skip to next track/file

1 Press briefly [▶] ([▶▶i] on the remote control) to select the next track or file.

Skip to previous track/file

1 Press briefly [◄] ([◄◄] on the remote control) and press again within 4 seconds of playing time.

Return to the beginning of the current track/file

1 Press briefly [◄] ([◄◄] on the remote control) after 4 seconds of playing time.

Moving to another track/file

When a disc has more than one track/file, you can move to another track/file as follows:

- 1 Press [SEARCH] on the remote control.
- 2 Press the appropriate numbered button ([0] to [9]) to select a track/file number.

Search

When a disc has more than one track/file, you can move to another track/file as follows:

1 Press and hold [◄]/[►] ([◄◄]/[►►] on the remote control) to select the required speed during playback and then release at the point vou want.



- Backward search: ◄◄×4, ◄◄×8
- Forward search: ►►×4, ►►×8

Intro scan

The first 10 seconds of each tracks/files (SCN) or each files in the current selected folder (SCN) on the disc are are played.

- 1 Press [SCN].
 - "SCN" ACD (or " SCN" MP3 WMA) appears on the display.
- Press and hold [SCN] for about 2 seconds during playback, MP3 WMA "SCN" appears on the display.
- 2 Press [SCN] again.

"SCN" (or " CSCN") disappears from the display and the intro scan is cancelled

Repeat

The current selected tracks/files (RPT) on the disc is played repeatedly.

- 1 Press [REP] during playback.
 - "REP" appears on the display.
- Press and hold [REP] for about 2 seconds during playback. MP3 WMA "RPT" appears on the display.
- 2 Press [REP] again.

"RPT" disappears from the display and the repeat mode is cancelled.

Random

All of the tracks/files (RDM) or the current selected folder (RDM) on the disc is played randomly.

1 Press [RDM] during playback.

"RDM" ACD (or "CRDM" MP3 WMA) appears on the display.

• Press and hold [RDM] for about 2 seconds during playback. MP3 WMA "RDM" appears on the display.

2 Press [RDM] again.

"RDM" (or "CIRDM") disappears from the display and the random playback is cancelled.



 During random playback, if you press [◄] ([I◄◄] on remote control), you won't go back to the previous track.

CD TEXT/ID3 TAG

When playing a disc containing information, you can see the CD TEXT/ID3 TAG information. In a ID3 TAG, information about the file (album title, performer name, song title) is recorded. In a WMA content, information about the file (song title, performer name) is recorded. If there is no information, "NO TEXT" will be shown in the display.

1 Press [DISP] repeatedly during MP3/WMA/CD TEXT file playback.

To skip to the next or previous folder MP3 WMA

1 Press [▲] to skip to the next folder, and press [▼] to skip to the previous folder.



· Time display appearing on the display part when playing VBR file may vary and there may be some difference from actual time (both progress time and VBR are displayed at the same time when playing file).

SETUP Menu

SETUP Menu

By using the Setup menu, you can make various adjustments to items such as picture and sound. You can also set a language for the subtitles and the Setup menu, among other things.

1 Press [DVD SETUP].

The "Setup menu" appears.

You can perform the same operation by pressing and holding [DISC MENU/SETUP] on the remote control.

2 Use [▲]/[▼] to select the desired option then press [▶] to move to the second level.

The screen shows the current setting for the selected item as well as alternate setting(s).

- 3 Use [▲]/[▼] to select the second desired option then press [▶] to move to the third level.
- 4 Use [▲]/[▼] to select the desired setting then press [ENTER] to confirm your selection.

Some items require additional steps.

5 Press [DVD SETUP].

The Setup menu ends.

You can perform the same operation by pressing [DISC MENU/SETUP] or pressing PLAY [▶] or [RETURN] on the remote control.



Press [◄] to go back to the previous level.

Language



Menu Language

Select a language for the setup menu and onscreen display. If you select a language for the setup menu, the character set for MP3 tag, DivX subtitle is also changed according to the language. Refer to Notice for displaying the DivX subtitle (page 31).

Disc Audio/Subtitle/Menu

Select the language you prefer for the audio track of disc, subtitle, and the disc menu.

- Original: Refers to the original language in which the disc was recorded.
- Other: To select another language, press number buttons and then [ENTER] to enter the corresponding 4-digit number according to the language code list (page 32). If you enter the wrong language code, input the 4-digit number and press any number button. When - - - appears on the screen, input the 4-digit number correctly.
- Off: This option is showed only in Disc Subtitle. If you select Off, disc subtitle is not displayed.

Display



TV Aspect

- 16:9: Select when a 16:9 wide TV is connected
- 4:3 Letter Box: Select when a standard 4:3 TV is connected. Displays a wide picture with bands on the upper and lower portions of the screen.
- 4:3 Pan Scan: Select when a standard 4:3 TV is connected. Automatically displays the wide picture on the entire screen and cuts off the portions that do not fit.



 In case of DivX file, TV Aspect of 4:3 Letter Box and 4:3 Pan Scan are the same.

B.L.E. (Black Level Expansion)

To select the black level of playback pictures. Set your preference and monitor's ability.

- On: Expanded grey scale.
- Off: Standard grey scale.



· The B.L.E. function works NTSC system only.

Audio

Each DVD disc has a variety of audio output options. Set the player's AUDIO options according to the type of audio system you use.



Dolby Digital/DTS/MPEG

- Bitstream: Select Bitstream if you connect the Digital optical out jack of this unit to an amplifier or other equipment with a Dolby Digital, DTS or MPEG decoder.
- PCM: Select when connected to a 2-channel digital stereo amplifier. DVDs encoded in Dolby Digital or MPEG will be automatically downmixed to 2channel PCM audio.
- Off (for DTS): If you select Off, the DTS signal is not output through the optical out jack.

Dynamic Range Control (DRC)

With the DVD format, you can hear a program's soundtrack in the most accurate and realistic presentation, thanks to digital audio technology. However, you may wish to compress the dynamic range of the audio output (the difference between the loudest sounds and the quietest ones). This allows you to listen to a movie at a lower volume without losing clarity of sound. Set DRC to On for this effect.

SETUP Menu

Lock (Parental Control)

To access the Rating, Password and Area Code features, you must input the 4- digit password you created. If you have not yet entered a password you are prompted to do so.



1 Input a 4-digit code and press [ENTER].

- If you made a mistake before pressing [ENTER], press [◀] to delete the digits one by one.
- 2 Enter it again and press [ENTER] to verify.

Rating

Some movies contain scenes that may not be suitable for children to view. Many of these discs contain parental control information that applies to the complete disc or to certain scenes on the disc. Movies and scenes are rated from 1 to 8, depending on the country. Some discs offer more suitable scenes as an alternative. The parental control feature allows you to block access to scenes below the rating you input, thereby preventing your children from being able to view material you believe is unsuitable.

- 1 Select Rating on the Lock menu then press **[►]**.
- 2 Select a rating from 1 to 8 using the [▲]/[▼].
- Rating 1 to 8: Rating one (1) has the most restrictions and rating eight (8) is the least restrictive.
- Unlock: If you select Unlock, parental control is not active and the disc plays in full.
- 3 Press [ENTER] to confirm your rating selection.



· If you set a rating for the player, all disc scenes with the same rating or lower are played. Higher rated scenes are not played unless an alternate scene is available on the disc. The alternative must have the same rating or a lower one. If no suitable alternative is found, playback stops. You must enter the 4-digit password or change the rating level in order to play the disc.

Password

You can enter or change password.

To make a new password:

- 1 Select Password on the Lock menu and then press [►].
- 2 Press [ENTER] when the New option is highlighted.
- 3 Enter a new password using the number buttons then press [ENTER].
- 4 Enter the password again to verify.

To change the password:

- 1 Select Password on the Lock menu and then press [▶].
- 2 Press [ENTER] when the Change option is hiahliahted.
- 3 Enter a current password using the numbered buttons then press [ENTER].
- 4 Enter a new password using the numbered buttons then press [ENTER].
- 5 Enter the password again to verify.

If you forget your password

If you forget your password you can clear it using the following steps.

1 Press [DVD SETUP].

The "Setup menu" appears.

• You can perform the same operation by pressing and holding [DISC MENU/SETUP] on the remote control.

- 2 Input the 6-digit number "210499" and the password is cleared.
- 3 Enter a new password. Refer to To make a new password (page 20).

Area Code

Enter the code of the area whose standards were used to rate the DVD video disc, according to the area code. Refer to Area code list (page 33).

- 1 Select Area Code on the Lock menu then press
- 2 Follow the step 2 as shown on Rating on the previous page.
- 3 Select the first character using [▲]/[▼].
- 4 Press [ENTER] and select the second character using [▲]/[▼].
- 5 Press [ENTER] to confirm your country code selection.

Others



PBC

Set Playback Control (PBC) to On or Off.

- On: Video CDs with PBC are played according to the PBC.
- Off: Video CDs with PBC are played in the same wav as Audio CDs.



· The PBC function is only available for playing the Video CD 20

DivX VOD

We provide you the DivX VOD (Video On Demand) registration code that allows you to rent and purchase videos based on the DivX VOD service. For more information, visit www.divx.com/vod.

- 1 Select DivX VOD option and then press [▶].
- 2 Press [ENTER] while Show Code is selected and the registration code will appear.

Use the registration code to purchase or rent the videos from DivX VOD service at www.divx.com/ vod.

3 Press [ENTER] to exit.

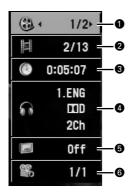


· All the downloaded videos from DivX VOD can only be played back on this unit.

DVD/VCD Operation

Displaying Disc Information onscreen

You can display various information about the disc loaded on-screen.



- 1. Title: Current title number/total number of titles
- 2. Chapter (Track): Current chapter (or track) number/total number of chapters (or tracks)
- 3. Time: Elapsed playing time
- 4. Audio: Selected audio language or channel
- 5. Subtitle: Selected subtitle
- 6. Angle: Selected angle/total number of angles

1 Press [DISPLAY] on the remote control during playback.

The displayed items differ depending on the disc type or playing status.

2 Press [▲]/[▼] to select an item.

3 Press [◄]/[►] to change or select the setting.

You can also use 0 to 9 if appropriate. For some functions, press [ENTER] to execute the settina.



- · If any button is not pressed for a few seconds, the onscreen display disappears.
- · Some discs may not provide all of the features on the on-screen display example shown above. On a Video CD 2.0 with PBC, PBC will be displayed instead of the track number. Refer to PBC (page 21).

Playing a DVD and Video CD

1 Insert a disc in the unit.

"READING" appears on the display, and playback starts automatically.

- If playback does not start, press [►II] (PLAY [►] on the remote control).
- In some cases, the disc menu might appear instead.



- The menu screen may be displayed first after loading a DVD or Video CD 2.0 which offers a menu.
- · If any button is not pressed after a disc is ejected, a disc is loaded automatically in about 10 seconds.
- · If parental control is set and the disc is not within the rating settings you must input the password. See Lock (Parental Control) (page 20).
- DVDs may have a region code. Your player does not play discs that have a region code different from your player. About the region code, refer to Region code (page 6).

Pre-Stop

1 Press [] on the remote control during playback.

"PRE-STOP" appears in the display.

2 To return to playback, if you press [►II] (PLAY [▶] on the remote control) on the Pre-Stop mode, it will be played from this point you stop.

Stop

- 1 Press [■] on the Pre-Stop mode.
- 2 To return to playback, if you press [►II] (PLAY [▶] on the remote control), it will be played from the beginning of the disc.

Pause

- 1 Press [►II] ([II] on the remote control) during playback.
- 2 To return to playback, press [►II] (PLAY [►] on the remote control).

Still picture and frame-byframe playback

- 1 Press [►II] ([II] on the remote control) during
 - The unit will now go into the PAUSE mode.
- 2 You can advance the picture frame-byframe by pressing [II] on the remote control repeatedly.
- 3 To return normal playback, press [►II] (PLAY [▶] on the remote control).

Slow motion

- 1 Press [►II] ([II] on the remote control) during playback.
 - The unit will now go into the PAUSE mode.
- 2 Use [◄◄]/[▶▶] on the remote control to select the required speed:
 - **◄**11/16, **◄**11/8, **◄**11/4, or **◄**11/2 (backward), or \blacksquare 1/16, \blacksquare 1/8, \blacksquare 1/4, or \blacksquare 1/2 (forward) With a Video CD, the Slow speed changes: $\blacktriangleright 1/16.$ $\blacktriangleright 1/8.$ $\blacktriangleright 1/4$ or $\blacktriangleright 1/2$ (forward).
- 3 To exit Slow Motion mode, press [►II] (PLAY [▶] on the remote control).



· Slow motion playback in reverse is not possible with Video CDs.

Moving to another title **DVD**

When a disc has more than one title, you can move to another title as follows:

- 1 Press DISPLAY on the remote control and then press $[\blacktriangle]/[\blacktriangledown]$ to select the menu item (title).
- 2 Press the appropriate numbered button (0 to 9) to select a title number or [◄]/[▶] button.

Moving to another chapter/ track

When a title on a disc has more than one chapter or a disc has more than one track, you can move to another chapter/track as follows:

- 1 Press [◄]/[▶] ([!◄◄]/[▶▶|] on the remote control) briefly during playback to select the next chapter/track or to return to the beginning of the current chapter/track.
- 2 Press [◄] ([◄◄] on the remote control) twice briefly to step back to the previous chapter/ track.
- 3 To go directly to any chapter during playback, press [DISPLAY] on the remote control and press $[\blacktriangle]/[\blacktriangledown]$ to select the chapter/track icon. Then, input the chapter/ track number or use [**◄**]/[**▶**].



- For 2 digit numbers, press the numbered buttons (0 to 9) in rapid succession.
- On a Video CD with PBC, you must set PBC to Off on the setup menu (page 21).

Skip to next chapter/track

1 Press briefly [▶] ([▶▶I] on the remote control) to select the next chapter or track.

DVD/VCD Operation

Skip to previous chapter/track

1 Press briefly [◄] ([◄◄] on the remote control) and press again within 4 seconds of playing time.

Return to the beginning of the current chapter/track

1 Press briefly [◄] ([I◄◄] on the remote control) after 4 seconds of playing time.

Scan

- 1 Press [◄◄]/[▶▶] on the remote control during playback.
- 2 Press [◄◄]/[▶▶] repeatedly on the remote control to select the required speed:

◄◄×2, **◄◄**×4, **◄◄**×8, **◄◄**×16, **◄◄**×32, **◄◄**×100 (backward) or $\triangleright \times 2$, $\triangleright \times 4$, $\triangleright \triangleright \times 8$, $\triangleright \triangleright \times 16$, ►►×32, ►►×100 (forward) With a Video CD, the scan speed changes: $\triangleleft \triangleleft \times 2$.

◄◄×4, **◄◄**×8, (backward) or **▶►**×2, **▶►**×4, ▶▶×8, (forward).

3 To return to normal playback, press [►/II] (PLAY [▶] on the remote control).

Repeat

DVD - Chapter/Title/Off. The default settings is Off.

- 1 To repeat the chapter currently playing, press [REP] ([REPEAT] on the remote control). The Chapter icon appears on the TV screen.
- 2 To repeat the title currently playing, press [REP] ([REPEAT] on the remote control) again. The Title icon appears on the TV screen.
- 3 To exit the repeat mode, press [REP] ([REPEAT] on the remote control) again.

The Off icon appears on the TV screen.

VCD - Track/All The default settings is All.

1 To repeat the track currently playing, press [REP] ([REPEAT] on the remote control).

The Track icon appears on the TV screen.

2 To exit the repeat mode, press [REP] ([REPEAT] on the remote control) again.

The All icon appears on the TV screen.



· On a Video CD with PBC, you must set PBC to Off on the setup menu (page 21).

Time search

The Time Search function allows you to start playing at any chosen time on the disc.

1 Press [DISPLAY] on the remote control during playback.

The on-screen display appears on the screen. The Time Search box shows the elapsed playing time of the current disc.

2 Within 10 seconds, press [▲]/[▼] to select the Time Search icon in the on-screen display.

The "-:--:-" appears in the Time Search box.

3 Within 10 seconds, use the number buttons to enter the required start time.

Enter hours, minutes, and seconds from left to right in the box.

4 Within 10 seconds, press [ENTER] to confirm the start time.

Playback starts from the selected time on the disc.

· If you enter an invalid time, playback will continue from the current point.



· On a Video CD with PBC, you must set PBC to Off on the setup menu (page 21).

Disc menu (DVD)

DVDs may offer menus that allow you to access special features.

1 Press [DISC MENU] ([DISC MENU/SETUP] on the remote control).

The disc menu is displayed.

- 2 Use [▲]/[▼]/[◄]/[►] to highlight your selection, then press [ENTER].
- 3 To remove the disc menu, press [DISC MENU] ([DISC MENU/SETUP] on the remote control) again.

PBC menu **VCD**

1 Press [DISC MENU/SETUP] or [RETURN] on the remote control to return to the menu screen.

Menu settings and operating procedures may differ. Follow the instructions on the each menu screen.

You also may set PBC to On under setup (page 21).

Camera angle

If the disc contains scenes recorded at different camera angles, you can change to a different camera angle during playback.

1 Press [ANGLE] repeatedly on the remote control during playback to select a desired

The number of the current angle appears on the display.

Changing the audio language

DVD

1 Press [AUDIO] repeatedly on the remote control during playback to hear a different audio language.

Changing the audio channel

VCD

1 Press [AUDIO] repeatedly on the remote control during playback to hear a different audio channel (STEREO, Left or Right).

Subtitles **DVD**

1 Press [SUBTITLE] on the remote control repeatedly during playback to see the different subtitle languages.



If the icon appears, the feature is not available on the

Zoom

The zoom function allows you to enlarge the video image.

- 1 Press [ZOOM] repeatedly during playback or in the pause mode to enlarge the image.
 - DVD : 100%—400%—1600%
 - VCD : 100%—400%

You can move through the zoomed picture using $[\blacktriangle]/[\blacktriangledown]/[\blacktriangleleft]/[\blacktriangleright]$.

Photo Operation

JPEG/TIFF disc compatibility with this player is limited as follows:

- Depending upon the size and the number of JPEG/ TIFF files, it could take a long time for this unit to read the disc's contents. If you do not see an onscreen display after several minutes, some of the files may be too large — reduce the resolution of the JPEG/TIFF files to less than 2M pixels as $2760 \times$ 2 048 pixels and burn another disc.
- The total number of files on the disc should be less than 3 000.
- Some discs may be incompatible due to a different recording format or the condition of disc.
- Ensure that all the selected files have the .jpg or .tiff extensions when copying into the disc.
- If the files have .jpe or .jpeg extensions, please rename them as .jpg file.
- File names without .jpg or .tiff extension will not be able to be read by this unit. Even though the files are shown as JPEG or TIFF image files on the computer.
- Some JPEG/TIFF files may not operate due to a different encoding format or the condition of disc.

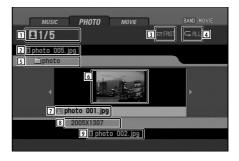
Viewing slide shows

This unit can play discs with JPEG or TIFF files.

1 Insert a disc in the unit.

For a disc that includes only photo files, "READING" appears on the display, and slide show starts automatically.

- 2 Press [DISPLAY] to show or hide the help bar while viewing the slide show.
- 3 Press [DISC MENU] ([DISC MENU/SETUP] or STOP [■] on the remote control) to return to the menu screen.



- 1. Current file number/Total file number
- 2 Previous file name
- 3. Slide show interval time (SLOW, NORMAL, FAST, OFF)
- 4. Repeat mode
- 5. Current folder name
- 6. Thumbnail image
- 7. Current file name
- 8. Resolution
- 9. Next file name



· For a disc that includes audio and movie files, the media type indicator tabs, MUSIC and MOVIE will be displayed along with PHOTO. To play the photo file, select PHOTO and then press [ENTER]/[►/II](PLAY [►]on the remote control). About the the media type indicator tab, refer to Selecting a media type on page 10.

Moving to another folder

1 Press [▲]/[▼] to select the previous or next folder in the disc.

Moving to another file

1 Press [◄]/[►] to select the previous or next file in the selected folder.

Slide show interval time

- 1 Press [DISC MENU] ([DISC MENU/SETUP] or STOP [■] on the remote control) to return to the menu screen.
- 2 Press [◄◄]/[▶▶] on the remote control to select the option you want to use.

It shows the slide show interval time: FAST-OFF-SLOW-NORMAL (FAST: 3 sec. NORMAL: 8 sec. SLOW: 13 sec)

Repeat

1 Press [REP] ([REPEAT] on the remote control) to select the option you want to use.

There are 2 repeat mode: ALL or FOLDER.

- ALL: Plays repeatedly on the disc.
- FOLDER: Plays repeatedly on the current folder.

Viewing still picture

1 Press [►II] ([II] on the remote control) during the slide show.

The player will now go into the pause mode.

- If the slide show interval time is OFF, you cannot perform this function.
- 2 To return to the slide show, press [►II] again (PLAY [▶] on the remote control).

Zoom

- 1 While viewing images, press [ZOOM] to enlarge the image (100%—400%—1600%).
- · You can move through the zoomed picture using $[\blacktriangle]/[\blacktriangledown]/[\blacktriangleleft]/[\blacktriangleright].$
- •To cancel the zoom mode, press PLAY [▶] on the remote control.



· The zoom function may not work when the size of the file is too small.

Rotating the picture

1 During watching pictures, press [▲]/[▼] during showing a picture to rotate the picture clockwise or counter clockwise.

Movie Operation

DivX disc compatibility with this player is limited as follows:

- · Available resolution size of the DivX file is under 720×576 (W×H) pixel.
- The file name of the DivX subtitle is available by 25
- If the number of the screen frame is over 30 per 1 second, this unit may not operate normally.
- If the video and audio structure of recorded file is not interleaved, either video or audio is outputted.

Playable Movie file

.avi, .divx, .div, .asf

Playable subtitle format

.srt, .smi, .ssa, .sub, .txt, .ass

Playable Codec format

DivX3, DivX4, DivX5, Xvid, MP4S

Playable Audio format

Dolby Digital, MP3

- · Sampling frequency: 48 kHz (Dolby Digital), within 8 kHz to 48 kHz (MP3)
- Bit rate: within 64 kbps to 640 kbps (Dolby Digital), within 8 kbps to 320 kbps (MP3)

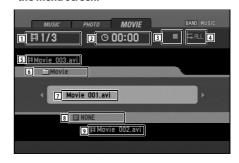
Playing a movie file

This unit can play discs with movie files.

1 Insert a disc in the unit.

For a disc that includes movie files or movie/ photo files, "READING" appears in the display, and playback starts automatically.

2 Press [DISC MENU] ([DISC MENU/SETUP] or STOP [■] on the remote control) to return to the menu screen.



- 1. Current file number/Total file number
- 2. Elapsed time
- 3. Playback status (Pre stop , stop ■)
- 4. Repeat mode
- 5. Previous file name
- 6 Current folder name
- 7. Current file name
- 8. Subtitle file name
- 9 Next file name



 For a disc that includes audio and photo files, the media type indicator tabs, MUSIC and PHOTO will be displayed along with MOVIE. To play the movie file, select MOVIE and then press [ENTER]/[►/■] (PLAY [►] on the remote control). About the the media type indicator tab, refer to Selecting a media type on page 10.

Playing DivX VOD content

Some DivX VOD (video on demand) content may only be playable a fixed number of times. When you load a disc containing this type of DivX VOD content, the remaining number of plays is shown on-screen and you then have the option of playing the disc (thereby using up one of the remaining plays), or stopping. If you load a disc that contains expired DivX VOD content (for example, content that has zero remaining plays), Rental expired is displayed.

 If your DivX VOD content allows an unlimited number of plays, then you may load the disc into your player and play the content as often as you like, and no message will be displayed.



- In order to play DivX VOD content on this unit, you first need to register the unit with your DivX VOD content provider. About your registration code, refer to DivX VOD (page 21)
- · DivX VOD content is protected by a DRM (Digital Rights Management) system. This restricts playback of content to specific, registered devices.

Pre-Stop

1 Press [■] on the remote control during playback.

"PRE-STOP" appears in the display and the movie menu appears on the screen.

2 To return to playback, if you press [►II] (PLAY [▶] on the remote control) on the Pre-Stop mode, it will be played from this point you stop.

Stop

- 1 Press [■] on the Pre-Stop mode.
 - "STOP" appears in the display and the movie menu appears on the screen.
- 2 To return to playback, if you press [►II] (PLAY [▶] on the remote control), it will be played from the beginning of the current file.

Pause

- 1 Press [►/II] ([II] on the remote control) during playback.
- 2 To return to playback, press [►II] (PLAY [►] on the remote control).

Still picture and frame-byframe playback

1 Press [►II] ([II] on the remote control) during playback.

The unit will now go into the PAUSE mode.

- 2 You can advance the picture frame-byframe by pressing [II] on the remote control repeatedly.
- 3 To return normal playback, press [►II] (PLAY [▶] on the remote control).

Movie Operation

Slow motion

1 Press [►II] ([II] on the remote control) during playback.

The unit will now go into the PAUSE mode.

2 Use [►►] on the remote control to select the required speed:

I▶1/16.**I**▶1/8.**I**▶1/4. or **I**▶1/2 (forward)

3 To exit Slow Motion mode, press [►II] (PLAY [▶] on the remote control).



· Slow motion playback in reverse is not possible with movie file.

Scan

- 1 Press [◄◄]/[▶▶] on the remote control during playback.
- 2 Press [◄◄]/[▶▶] repeatedly on the remote control to select the required speed:

◄◄×2, **◄◄**×4, **◄◄**×16, **◄◄**×32 (backward) or **▶►**×2, **▶►**×4, **▶►**×16, **▶►**×32 (forward).

3 To return to normal playback, press [►/II] (PLAY [▶] on the remote control).

Skip

- 1 Press [◄]/[▶] ([!◄◄]/[▶▶|] on the remote control) during playback to select the next file or to return to the beginning of the current
- 2 Press [◄] ([◄◄] on the remote control) twice briefly to step back to the previous file.
- 3 To go directly to any file on the movie menu, press [SEARCH] and then press the file number you want with number buttons ([0] to [9]).

Repeat

All files or the folder on the disc is played repeatedly. The default settings is All.

1 To repeat all files of current folder, press and hold [REP] ([REPEAT] on the remote control) during playback.

The Folder icon appears on the TV screen.

2 To repeat all files of the disc, press [REP] ([REPEAT] on the remote control) again during playback.

The All icon appears on the TV screen.

3 To repeat the current file, press [REP] ([REPEAT] on the remote control) during plavback.

The File icon appears on the TV screen.

Time search

The Time Search function allows you to start playing at any chosen time on the file.

1 Press [DISPLAY] on the remote control during playback.

The on-screen display appears on the screen. The Time Search box shows the elapsed playing time of the current disc.

2 Within 10 seconds, press [▲]/[▼] to select the Time Search icon in the on-screen display.

The "-:--:-" appears in the Time Search box.

3 Within 10 seconds, use the number buttons to enter the required start time.

Enter hours, minutes, and seconds from left to right in the box.

4 Within 10 seconds, press [ENTER] to confirm the start time.

Playback starts from the selected time on the file.

· If you enter an invalid time, playback will continue from the current point.

Changing the audio language

1 Press [AUDIO] repeatedly on the remote control during playback to hear a different audio language or audio file.



 If the icon appears, the feature is not available on the disc.

Subtitles

 Press [SUBTITLE] on the remote control repeatedly during playback to see the different subtitle languages.



 If the icon appears, the feature is not available on the disc.

Notice for displaying the DivX subtitle

If the subtitle does not display properly during playback, please follow the steps below.

1 Press and hold [SUBTITLE] on the remote control for about 3 seconds.

The number of character set will appear.

2 Press [SUBTITLE] on the remote control to select another character set until the subtitle is displayed properly.

No.	Character set
CP1250	Central Europe
CP1251	Cyrillic
CP1252	West european latin
CP1253	Greek
CP1254	Turkish



- If the subtitle setup menu does not have the DivX subtitle language that you are going to play, the subtitle language may not be displayed properly.
- If you select a character set for DivX subtitle, the setting is also applied to MP3 tag.

AUX Operation

Playing an auxiliary equipment

Before operating the auxiliary equipment using the following procedure, select the external input correctly. Refer to AUX (Auxiliary) ON/ OFF (page 12). You can connect auxiliary equipment to this unit.

1 Connect the auxiliary equipment to the auxiliary input on the unit.



2 Press [SRC] to select the AUX IN.

"AUX IN" appears in the display.

- 3 Turn on the connected auxiliary equipment and start playing the source.
- 4 Adjust the volume.



- Connect a portable audio device with mini-plug cable (3.5 ø).
- Use the mini-plug cable which is stereo type and does not have any resistance.
- If the input level of the auxiliary equipment connected to the AUX input jack is not high enough, adjust the input level properly. Refer to AUX (Auxiliary) 0 dB/+6 dB (page 12).

Language code list

Enter the appropriate code number for the initial settings Disc Audio, SUBTITLE and/or Menu (page 18).

Language	Code	
Abkhazian	6566	
Afar	6565	
Afrikaans	6570	
Albanian	8381	
Amharic	6577	
Arabic	6582	
Armenian	7289	
Assamese	6583	
Aymara	6588	
Azerbaijani	6590	
Bashkir	6665	
Basque	6985	
Bengali; Bangla	6678	
Bhutani	6890	
Bihari	6672	
Breton	6682	
Bulgarian	6671	
Burmese	7789	
Byelorussian	6669	
Cambodian	7577	
Catalan	6765	
Chinese	9072	
Corsican	6779	
Croatian	7282	
Czech	6783	
Danish	6865	
Dutch	7876	
English	6978	
Esperanto	6979	
Estonian	6984	
Faroese	7079	
Fiji	7074	
Finnish	7073	
French	7082	
Frisian	7089	
Galician	7176	
Georgian	7565	
German	6869	
Greek	6976	
Greenlandic	7576	
Guarani	7178	

Language	Code
Gujarati	7185
Hausa	7265
Hebrew	7387
Hindi	7273
Hungarian	7285
Icelandic	7383
Indonesian	7378
Interlingua	7365
Irish	7165
Italian	7384
Japanese	7465
Javanese	7487
Kannada	7578
Kashmiri	7583
Kazakh	7575
Kirghiz	7589
Korean	7579
Kurdish	7585
Laothian	7679
Latin	7665
Latvian, Lettish	7686
Lingala	7678
Lithuanian	7684
Macedonian	7775
Malagasy	7771
Malay	7783
Malayalam	7776
Maltese	7784
Maori	7773
Marathi	7782
Moldavian	7779
Mongolian	7778
Nauru	7865
Nepali	7869
Norwegian .	7879
Oriya	7982
Panjabi	8065
Pashto, Pushto	8083
Persian	7065
Polish	8076
Portuguese	8084

Language	Code
Quechua	8185
Rhaeto-Romance	8277
Rumanian	8279
Russian	8285
Samoan	8377
Sanskrit	8365
Scots Gaelic	7168
Serbian	8382
Serbo-Croatian	8372
Shona	8378
Sindhi	8368
Singhalese	8373
Slovak	8375
Slovenian	8376
Somali	8379
Spanish	6983
Sudanese	8385
Swahili	8387
Swedish	8386
Tagalog	8476
Tajik	8471
Tamil	8465
Tatar	8484
Telugu	8469
Thai	8472
Tibetan	6679
Tigrinya	8473
Tonga	8479
Turkish	8482
Turkmen	8475
Twi	8487
Ukrainian	8575
Urdu	8582
Uzbek	8590
Volapük	8679
Welsh	6789
Wolof	8779
Xhosa	8872
Yiddish	7473
Yoruba	8979
Zulu	9085

Area code list

Enter the appropriate code number for the initial setting Area Code (page 21).

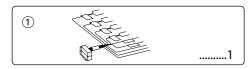
Area	Code
Afghanistan	AF
Argentina	AR
Australia	AU
Austria	AT
Belgium	BE
Bhutan	BT
Bolivia	ВО
Brazil	BR
Cambodia	KH
Canada	CA
Chile	CL
China	CN
Colombia	CO
Congo	CG
Costa Rica	CR
Croatia	HR
Czech Republic	CA
Denmark	DK
Ecuador	EC
Egypt	EG
El Salvador	SV
Ethiopia	ET
Fiji	FJ
Finland	FI
France	FR
Germany	DE
Great Britain	GB
Greece	GR
Greenland	GL

Area	Code
Heard and McDonald Islands	HM
Hong Kong	HK
Hungary	HU
India	IN
Indonesia	ID
Israel	IL
Italy	IT
Jamaica	JM
Japan	JP
Kenya	KE
Kuwait	KW
Libya	LY
Luxembourg	LU
Malaysia	MY
Maldives	MV
Mexico	MX
Monaco	MC MC
Mongolia	MN
Morocco	MA
Nepal	NP
Netherlands	NL
Netherlands Antilles	AN
New Zealand	NZ
Nigeria	NG
Norway	NO
Oman	OM
Pakistan	PK
Panama	PA

Area	Code
Paraguay PY	PY
Philippines	PH
Poland	PL
Portugal	PT
Romania	RO
Russian Federation	RU
Saudi Arabia	SA
Senegal	SN
Singapore	SG
Slovak Republic	SK
Slovenia	SI
South Africa	ZA ZA
South Korea	KR
Spain	ES
Sri Lanka	LK
Sweden	SE
Switzerland	CH
Taiwan	TW
Thailand	TH
Turkey	TR
Uganda	UG
Ukraine	UA UA
United States	US
Uruguay	UY
Uzbekistan	UZ
Vietnam	VN
Zimbabwe	ZW

Accessories/Installation Procedure

Accessories





Installation Procedure

- 1. To prevent a short circuit, remove the key from the ignition and disconnect the

 battery.
- 2. Make the proper input and output wire connections for each unit
- 3. Connect the speaker wires of the wiring harness.
- 4. Connect the wiring harness wires in the following order: ground, battery, ignition.
- 5. Connect the wiring harness connector to the unit.
- 6. Install the unit in your car.
- 7. Reconnect the

 battery.
- 8 Press the reset button



- · Mounting and wiring this product requires skills and experience. For safety's sake, leave the mounting and wiring work to professionals.
- · Make sure to ground the unit to a negative 12V DC power supply.
- · Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- Do not use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.
- Make sure that all wire connections are securely made by inserting jacks until they lock completely.
- · If your vehicle's ignition does not have an ACC position, or if the ignition wire is connected to a power source with constant voltage such as a battery wire, the power will not be linked with the ignition (i.e., it will not turn on and off along with the ignition). If you want to link the unit's power with the ignition, connect the ignition wire to a power source that can be turned on and off with the ignition key.
- · Use a commercially available conversion connector if the connector does not fit in the vehicle connector.
- · Insulate unconnected wires with vinyl tape or other similar material. To prevent a short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.
- · If the console has a lid, make sure to install the unit so that the faceplate will not hit the lid when closing and opening.

- If the fuse blows, first make sure the wires aren't touching to cause a short circuit, then replace the old fuse with one with the same rating.
- · Connect the speaker wires correctly to the terminals to which they correspond. The unit may be damaged or fail to work if you share the

 wires or ground them to any metal part in the car.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Mount the unit so that the mounting angle is 30° or less.
- This unit has the cooling fan (page 36) to decrease the internal temperature. Do not mount the unit in a place where the cooling fan of the unit are blocked. Blocking these openings will inhibit the cooling of the internal temperature and result in malfunction.

Installation/Removing the Unit

Installation

Metal mounting strap (commercially available) Firewall or metal support Bend the tabs of the mounting sleeve with a

> screwdriver or similar utensil and attach it in place.

Screw (M4X8) (commercially available)

Self-tapping screw

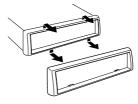
(commercially available)



· Make sure that the unit is installed securely in place. If the unit is unstable, it may malfunction (for example, the sound may skip).

Removing the hard rubber frame

1 Extend top and bottom of the frame outwards to remove the frame. (When reattaching the frame, point the side with a groove downwards and attach it.)





· It becomes easy to remove the frame if the faceplate is released.

Removing the Unit

Screw (M4X8)

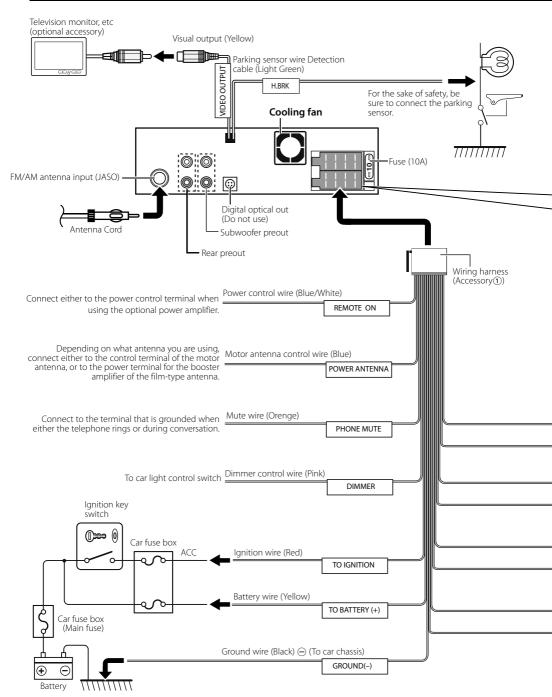
- **1** Refer to the section < Removing the hard rubber frame> and then remove the hard rubber frame.
- **2** Remove the screw (M4 \times 8) on the back panel.
- **3** Insert the two removal tools deeply into the slots on each side, as shown.
- 4 Lower the removal tool toward the bottom, and pull out the unit halfway while pressing towards the inside

(commercially available) Accessory(2)

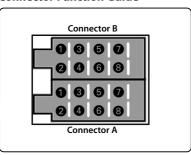


- · Be careful to avoid injury from the catch pins on the removal tool.
- **5** Pull the unit all the way out with your hands, being careful not to drop it.

Connecting Wires to Terminals



Connector Function Guide

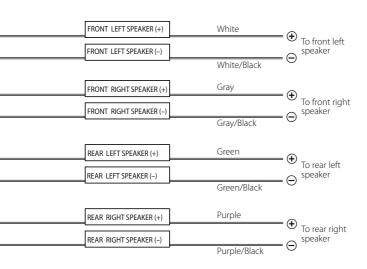


Connector Function Guide

Pin Numbers for	Cable Colour	Functions
ISO Connectors		
External Power		
Connector		
A-1*	Blue/White	Power control
A-2*	Orange	Phone Mute
A-4	Yellow	Battery
A-5	Blue	Power Antenna
A-6*	Pink	Dimmer
A-7	Red	Ignition (ACC)
A-8	Black	Earth (Ground)
		Connection
Speaker		
Connector		
B-1	Purple	Rear Right (+)
B-2	Purple/Black	Rear Right (-)
B-3	Gray	Front Right (+)
B-4	Gray/Black	Front Right (-)
B-5	White	Front Left (+)
B-6	White/Black	Front Left (-)
B-7	Green	Rear Left (+)
B-8	Green/Black	Rear Left (-)



• *You have to check connector pin function of a vehicle.



Troubleshooting Guide

What might seem to be a malfunction in your unit may just be the result of slight misoperation or miswiring. Before calling service, first check the following table for possible problems.

General

The power does not turn ON.

- ✓ The fuse has blown.
 - After checking for short circuits in the wires, replace the fuse with one with the same rating.
- ✓ The speaker wire has a short-circuit or touches the chassis of the vehicle, and then the protection function is activated.
 - Wire or insulate the speaker cable properly and press the reset button.

No sound can be heard, or the volume is low.

- ✓ The fader or balance settings are set all the way to one side.
- Center the fader and balance settings.
- ✓ The input/output wires or wiring harness are connected incorrectly.
 - Reconnect the input/output wires or the wiring harness correctly. Refer to the <Connecting Wires to Terminals> (page 36).

? The sound quality is poor or distorted.

- ✓ One of the speaker wires is being pinched by a screw in the car.
 - Check the speaker wiring.
- ✓ The speakers are not wired correctly.
 - Reconnect the speaker wires so that each output terminal is connected to a different speaker.

Tuner source

Radio reception is poor.

- ✓ The car antenna is not extended.
- Pull the antenna out all the way.
- The antenna control wire is not connected.
 - Connect the wire correctly, referring to the <Connecting Wires to Terminals> section (page 36).

Disc source

The specified disc does not play, but another one plays instead.

- The specified CD is guite dirty.
 - Clean the CD.
- The disc is severely scratched.
 - Try another disc instead.

Audio file source

The sound skips when an Audio file is being played.

- ✓ The media is scratched or dirty.
- Clean the media, referring to the CD cleaning of the section on <Handling discs> (page 7).
- The recording condition is bad.
 - Record the media again or use another media.

Specifications

FM tuner section

Frequency range (50 kHz space) : 87.5 MHz - 108.0 MHz Signal to Noise ratio (MONO) : 57 dB

Stereo separation (1 kHz)

· 25 dB

MW tuner section

Frequency range (9 kHz space) : 522 kHz - 1620 kHz Usable sensitivity (S/N = 20dB) : 28 µV

DVD player section

D/A Converter · 24 bit

Decoder

: Linear PCM/ Dolby Digital/ dts/ MP3/ WMA

Wow & Flutter

: Below Measurable Limit

Frequency Response

Sampling frequency; 96 kHz: 20 - 44,000 Hz Sampling frequency; 48 kHz: 20 - 22,000 Hz Sampling frequency; 44.1 kHz: 20 – 20,000 Hz

Total Harmonic Distortion

: 0.05 % (1 kHz)

S/N Ratio (dB) : 100 dB (1 kHz)

Dynamic Range

: 96 dB

Sampling frequency : 32/44.1/48/96 kHz

Quantifying bit number : 16/ 20/ 24 bit

MP3 Decode

: Compliant with MPEG-1/2 Audio Layer-3

WMA Decode

: Compliant with Windows Media Audio

Audio section

Maximum output power

:50 W x 4

Output power (DIN 45324, +B=14.4V)

: 30 W x 4

Speaker Impedance

· 4 – 8 O

Tone action

Bass: 100 Hz +8 dB Middle: 1 kHz ±8 dB

Treble: 10 kHz ±8 dB Preout level / Load (CD)

: 4000 mV/47 kΩ Preout impedance

: ≤ 600 Ω

Auxiliary input

Frequency response (±3 dB)

: 20 Hz - 20 kHz

Input Maximum Voltage

: 1200 mV

Input Impedance

: 100 kΩ

General

Operating voltage (11 – 16V allowable)

: 14.4 V

Current consumption : 10 A

Installation Size (W x H x D) : 182 x 53 x 165 mm

Weiaht : 1.70 kg

